#### 2011 Military Health System Conference

# An Econometric Model of Health Services Delivery National Capital Area (NCA)

The Quadruple Aim: Working Together, Achieving Success

CAPT Steven Keener Mr. Pradeep G. Gidwani, SES



TRICARE Regional Office - North

| maintaining the data needed, and c<br>including suggestions for reducing | lection of information is estimated to<br>ompleting and reviewing the collect<br>this burden, to Washington Headqu<br>uld be aware that notwithstanding ar<br>DMB control number. | ion of information. Send comments arters Services, Directorate for Info | regarding this burden estimate rmation Operations and Reports | or any other aspect of the 1215 Jefferson Davis | nis collection of information,<br>Highway, Suite 1204, Arlington |  |  |
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**Report Documentation Page** 

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#### Agenda



- Introduction: Statement of the challenge
- TRO North Approach
  - DoD imperatives: Quadruple Aim in Support of the Total Force
    - Readiness, Population Health, Experience of Care & Per Capita Cost
  - Assumptions
  - Demographics
    - Market Analysis
    - NCA at a glance
    - Beneficiary Category (ADSM, ADFM, RET, RETFM, Other)
    - Eligible vs. Enrolled Beneficiaries
  - Workload Recapture Potential
    - Referrals to Network
    - Top 10 Major Diagnostic Categories Diagnoses and Cost
  - Capacity
  - Recommendations
- Improvements to the Assessment
  - GIS Capabilities



## INTRODUCTION WHAT WAS THE CHALLENGE?

Mr. Pradeep G. Gidwani, SES, Director TRICARE Region, North

Mr. Joe Marshall, SES, Deputy Chief for Resource Management/Comptroller, Navy Medicine

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CAPT Steve Keener, Chief of Staff, TRO-N

### TRO-N METHODOLOGY

ASSUMPTIONS DEMOGRAPHICS

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#### **Assumptions**

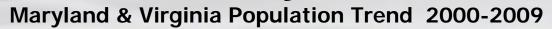


- Growth rate of 22.7% in VA counties since 2000 will not continue
  - Housing affordability a critical factor for demographic shift
- Access to care exacerbated (drive time) with shifting demographics from Beltway
  - Especially south of the Beltway towards Fredericksburg and west to Culpeper
- Fairfax County saturated but will experience a growth of 30,000 from BRAC
- Conflict(s) end will result in different demand elasticity
- New Walter Reed National Military Medical Center and Fort Belvoir hospital will absorb current workload from NNMC, WRAMC & DeWitt
- A robust provider network does not indicate willingness of these providers wanting to work in our military hospitals and clinics



### **DEMOGRAPHICS**

### **Market Analysis**





| СТҮ            | 2000 Total | 2009 Total | % Total pop | 2005         | 2009         | 2009 Military | % Military pop     |
|----------------|------------|------------|-------------|--------------|--------------|---------------|--------------------|
| CIT            | рор        | pop (est)  | change      | Military pop | Military pop | % of pop      | change 2005 / 2009 |
| ANNE ARUNDEL   | 489,664    | 521,209    | 6.4%        | 45,647       | 44,685       | 8.6%          | -2.1%              |
| CHARLES        | 120,546    | 142,226    | 18.0%       | 15,254       | 14,099       | 9.9%          | -7.6%              |
| FREDERICK      | 195,276    | 227,980    | 16.7%       | 7,875        | 8,307        | 3.6%          | 5.5%               |
| HOWARD         | 247,849    | 281,884    | 13.7%       | 6,089        | 5,975        | 2.1%          | -1.9%              |
| MONTGOMERY     | 873,346    | 971,600    | 11.3%       | 28,641       | 28,720       | 3.0%          | 0.3%               |
| PRINCE GEORGES | 801,516    | 834,560    | 4.1%        | 41,482       | 37,887       | 4.5%          | -8.7%              |
| SO MD Total    | 2,728,197  | 2,979,459  | 9.2%        | 144,988      | 139,673      | 4.7%          | -3.7%              |

| СТҮ            | 2000 Total<br>pop | 2009 Total<br>pop (est) | % Total pop change | 2005<br>Military pop | 2009<br>Military pop | 2009 Military<br>% of pop | % Military pop<br>change 2005 / 2009 |
|----------------|-------------------|-------------------------|--------------------|----------------------|----------------------|---------------------------|--------------------------------------|
| CULPEPER       | 34,263            | 46,502                  | 35.7%              | 1,109                | 1,407                | 3.0%                      | 26.9%                                |
| FAIRFAX        | 969,983           | 1,037,605               | 7.0%               | 86,177               | 89,249               | 8.6%                      | 3.6%                                 |
| FAUQUIER       | 55,185            | 68,010                  | 23.2%              | 2,666                | 2,863                | 4.2%                      | 7.4%                                 |
| LOUDOUN        | 169,599           | 301,171                 | 77.6%              | 8,529                | 10,665               | 3.5%                      | 25.0%                                |
| PRINCE WILLIAM | 281,287           | 379,116                 | 34.8%              | 43,852               | 49,176               | 13.0%                     | 12.1%                                |
| SPOTSYLVANIA   | 90,395            | 120,977                 | 33.8%              | 10,771               | 11,892               | 9.8%                      | 10.4%                                |
| STAFFORD       | 92,446            | 124,166                 | 34.3%              | 22,688               | 25,613               | 20.6%                     | 12.9%                                |
| NOVA Total     | 1,693,158         | 2,077,547               | 22.7%              | 175,792              | 190,865              | 9.2%                      | 8.6%                                 |

MD: Census available since 2000
DoD: Census available since 2005
Decreasing except for Frederick County
Overall DoD decrease -3.7%



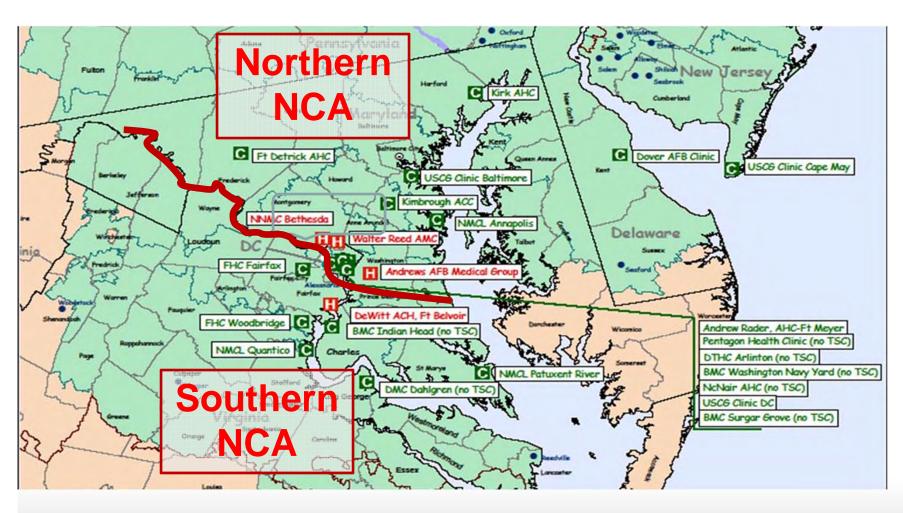
VA: Census available since 2000 DoD: Census available since 2005 Increasing in all 7 Counties Overall DoD increase 8.6%

Source: MD/VA Census Bureau & DEERS 2011 MHS Conference

#### **NCA** at a Glance

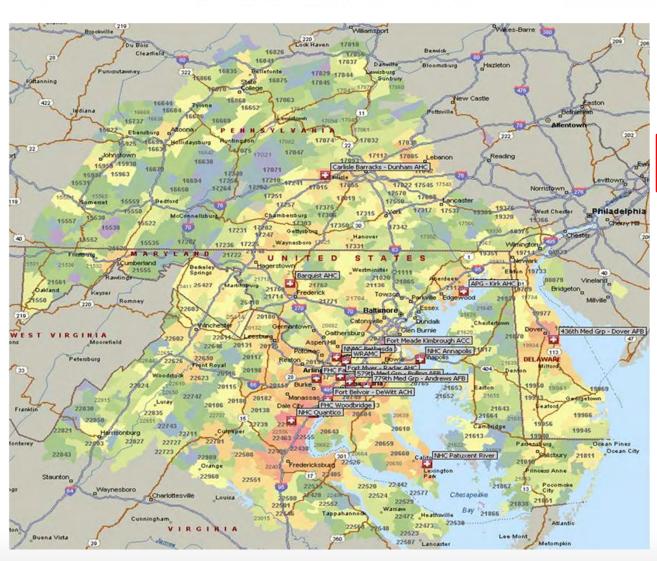


Total Eligibles in NCA FY 2010 = 574,172 24 Military Hospitals & Clinics



### NCA FY10 Total Eligible Population





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**Eligible population for NCA:** 

574,172

Over 275,191 (48%) live around Ft. Belvoir & South

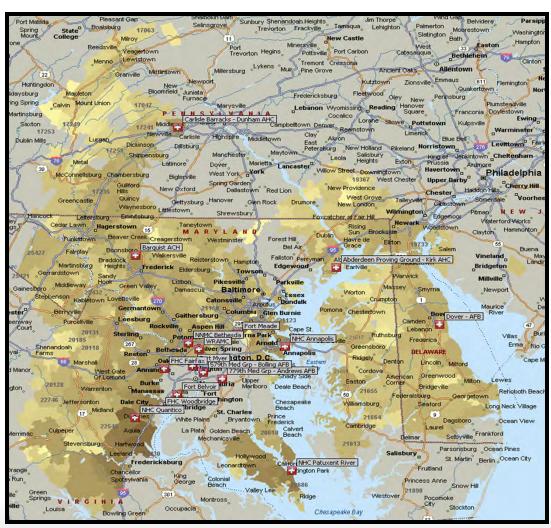
Navy/USMC: 151,360 (26.4%) **Army:** 179,817 (31.3%) Air Force: 148,362 (25.8%) Other: 94,633 (16.5%)

☐ FY10 Total NCA Eligibles 15,000 122 □ Pushpins MTF - National Capital Area Source: DEERS. Oct 2010

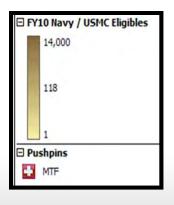
## FY10 Navy/USMC Eligible Population for NCA PSAs



#### North



| MTF                             | PSA<br>Eligibles | Navy/USMC<br>Eligibles | % of PSA<br>Eligibles | Navy/USMC<br>Enrolled | % Navy/USMC<br>Enrolled |
|---------------------------------|------------------|------------------------|-----------------------|-----------------------|-------------------------|
| DEWITT ACH-FT. BELVOIR          | 27,392           | •                      | 18%                   | 876                   | 18%                     |
| NHC QUANTICO                    | 59,018           | ,                      | 42%                   | 12,588                | 51%                     |
| FAMILY HEALTH CENTER FAIRFAX    | 43,324           | 4,643                  | 11%                   | 3,873                 | 83%                     |
| FAMILY HEALTH CENTER WOODBRIDGE | 37,318           | 6,620                  | 18%                   | 5,899                 | 89%                     |
| 436th MED GRP-DOVER             | 27,261           | 2,079                  | 8%                    | 438                   | 21%                     |
| WALTER REED AMC-WASHINGTON DC   | 16,433           | 2,185                  | 13%                   | 429                   | 20%                     |
| 779TH MED GRP-ANDREWS           | 25,055           | 4,738                  | 19%                   | 1,221                 | 26%                     |
| NNMC BETHESDA                   | 31,857           | 24,559                 | 77%                   | 16,445                | 67%                     |
| NHC PATUXENT RIVER              | 20,354           | 16,465                 | 81%                   | 8,438                 | 51%                     |
| KIMBROUGH AMB CAR CEN-FT MEADE  | 54,469           | 7,412                  | 14%                   | 4,372                 | 59%                     |
| NHC ANNAPOLIS                   | 22,442           | 17,494                 | 78%                   | 4,256                 | 24%                     |
| KIRK AHC-ABERDEEN PRVNG GD      | 17,918           | 2,754                  | 15%                   | 579                   | 21%                     |
| BARQUIST ARMY HEALTH CLINIC     | 26,865           | 6,150                  | 23%                   | 1,335                 | 22%                     |
| DUNHAM AHC-CARLISLE BARRACKS    | 10,790           | 2,415                  | 22%                   | 1,541                 | 64%                     |
| ANDREW RADER AHC-FT. MYER       | 7,585            | 2,232                  | 29%                   | 525                   | 24%                     |
| 579TH MED GRP-BOLLING           | 27,209           | 1,039                  | 4%                    | 622                   | 60%                     |
| TOTAL                           | 455,290          | 130,204                | 29%                   | 63,437                | 49%                     |



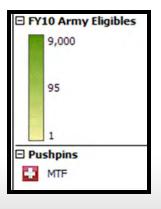
Source: DEERS
Oct 2010

## FY10 Army Eligible Population for NCA PSAs





| MTF                             | PSA<br>Eligibles | Army<br>Eligibles | % of PSA<br>Eligibles | Army<br>Enrolled | % Army<br>Enrolled |
|---------------------------------|------------------|-------------------|-----------------------|------------------|--------------------|
| DEWITT ACH-FT. BELVOIR          | 27,392           | 23,276            | 85%                   | 20,906           | 90%                |
| NHC QUANTICO                    | 59,018           | 1,890             | 3%                    | 655              | 35%                |
| FAMILY HEALTH CENTER FAIRFAX    | 43,324           | 23,347            | 54%                   | 6,713            | 29%                |
| FAMILY HEALTH CENTER WOODBRIDGE | 37,318           | 29,819            | 80%                   | 12,484           | 42%                |
| 436th MED GRP-DOVER             | 27,261           | 3,855             | 14%                   | 1,066            | 28%                |
| WALTER REED AMC-WASHINGTON DC   | 16,433           | 15,285            | 93%                   | 13,398           | 88%                |
| 779TH MED GRP-ANDREWS           | 25,055           | 4,120             | 16%                   | 3,276            | 80%                |
| NNMC BETHESDA                   | 31,857           | 5,601             | 18%                   | 2,241            | 40%                |
| NHC PATUXENT RIVER              | 20,354           | 1,058             | 5%                    | 235              | 22%                |
| KIMBROUGH AMB CAR CEN-FT MEADE  | 54,469           | 30,567            | 56%                   | 12,653           | 41%                |
| NHC ANNAPOLIS                   | 22,442           | 1,004             | 4%                    | 692              | 69%                |
| KIRK AHC-ABERDEEN PRVNG GD      | 17,918           | 12,607            | 70%                   | 5,676            | 45%                |
| BARQUIST ARMY HEALTH CLINIC     | 26,865           | 12,366            | 46%                   | 3,679            | 30%                |
| DUNHAM AHC-CARLISLE BARRACKS    | 10,790           | 6,918             | 64%                   | 6,205            | 90%                |
| ANDREW RADER AHC-FT. MYER       | 7,585            | 7,026             | 93%                   | 6,357            | 90%                |
| 579TH MED GRP-BOLLING           | 27,209           | 1,078             | 4%                    | 0                | 0%                 |
| TOTAL                           | 455,290          | 179,817           | 39%                   | 96,236           | 54%                |

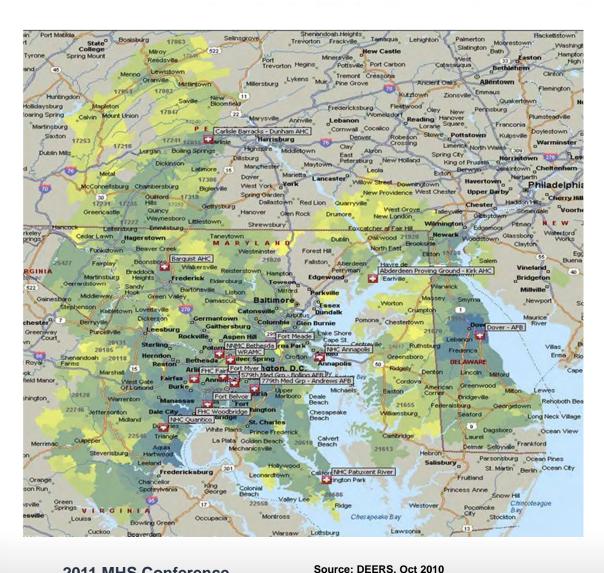


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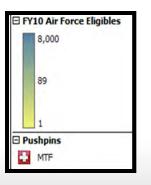
Source: DEERS, Oct 2010

### **FY10 Air Force Eligible** Population for NCA PSAs



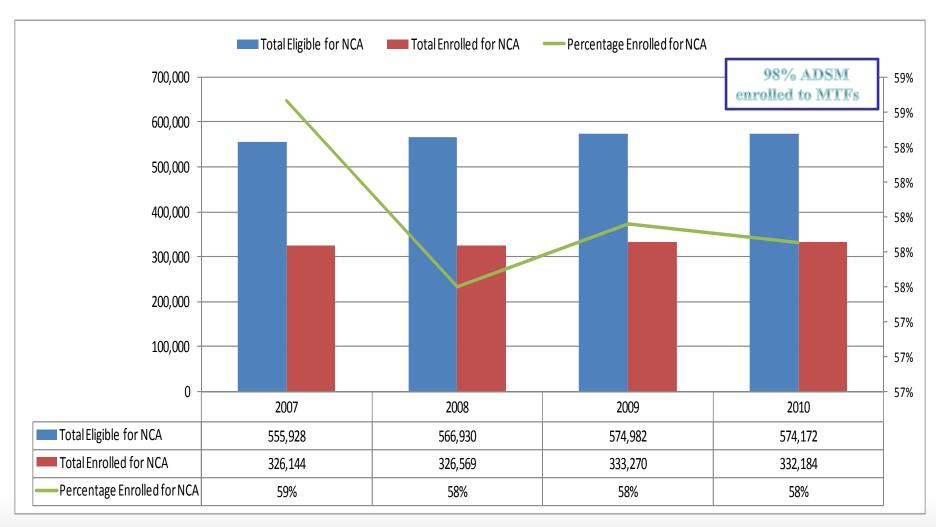


| MTF                             | PSA<br>Eligibles | Air Force<br>Eligibles | % of PSA<br>Eligibles | Air Force<br>Enrolled | % Air Force<br>Enrolled |
|---------------------------------|------------------|------------------------|-----------------------|-----------------------|-------------------------|
| DEWITT ACH-FT. BELVOIR          | 27,392           | 5,659                  | 21%                   | 1,936                 | 34%                     |
| NHC QUANTICO                    | 59,018           | 10,634                 | 18%                   | 1,065                 | 10%                     |
| FAMILY HEALTH CENTER FAIRFAX    | 43,324           | 14,060                 | 32%                   | 5,908                 | 42%                     |
| FAMILY HEALTH CENTER WOODBRIDGE | 37,318           | 6,601                  | 18%                   | 6,298                 | 95%                     |
| 436th MED GRP-DOVER             | 27,261           | 20,810                 | 76%                   | 11,208                | 54%                     |
| WALTER REED AMC-WASHINGTON DC   | 16,433           | 3,133                  | 19%                   | 61                    | 2%                      |
| 779TH MED GRP-ANDREWS           | 25,055           | 24,941                 | 100%                  | 19,245                | 77%                     |
| NNMC BETHESDA                   | 31,857           | 4,781                  | 15%                   | 2,632                 | 55%                     |
| NHC PATUXENT RIVER              | 20,354           | 2,078                  | 10%                   | 565                   | 27%                     |
| KIMBROUGH AMB CAR CEN-FT MEADE  | 54,469           | 13,001                 | 24%                   | 5,317                 | 41%                     |
| NHC ANNAPOLIS                   | 22,442           | 2,559                  | 11%                   | 658                   | 26%                     |
| KIRK AHC-ABERDEEN PRVNG GD      | 17,918           | 2,191                  | 12%                   | 606                   | 28%                     |
| BARQUIST ARMY HEALTH CLINIC     | 26,865           | 6,897                  | 26%                   | 776                   | 11%                     |
| DUNHAM AHC-CARLISLE BARRACKS    | 10,790           | 2,159                  | 20%                   | 1,756                 | 81%                     |
| ANDREW RADER AHC-FT. MYER       | 7,585            | 1,753                  | 23%                   | 1,733                 | 99%                     |
| 579TH MED GRP-BOLLING           | 27,209           | 27,105                 | 100%                  | 4,774                 | 18%                     |
| TOTAL                           | 455,290          | 148,362                | 33%                   | 64,538                | 44%                     |



## **Eligible NCA Population**





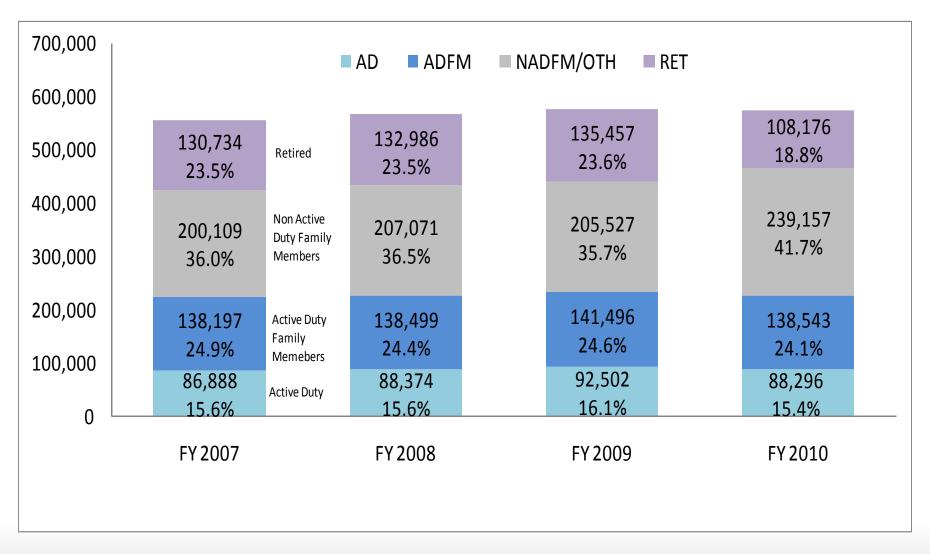
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Data Source: DEERS as of Oct 2010

#### **Beneficiary Category**

#### **Eligible NCA Population**





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Data Source: DEERS 10/2010



Mr. Pradeep G. Gidwani, SES, Director TRICARE Region, North

#### TRO-N METHODOLOGY

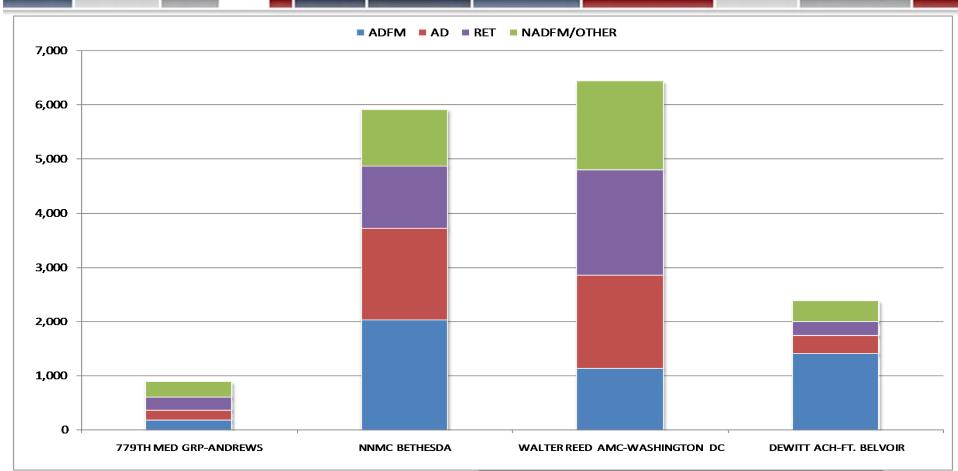
DOD RECAPTURE OF WORKLOAD

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### **MTF** Inpatient



#### **Admissions by Parent MTF and Beneficiary Category FY 10**



|                               | ADFM  | AD    | RET   | NADFM/OTHER | TOTAL  |
|-------------------------------|-------|-------|-------|-------------|--------|
| 779TH MED GRP-ANDREWS         | 181   | 192   | 239   | 285         | 897    |
| NNMC BETHESDA                 | 2,033 | 1,696 | 1,151 | 1,045       | 5,925  |
| WALTER REED AMC-WASHINGTON DC | 1,147 | 1,716 | 1,932 | 1,649       | 6,444  |
| DEWITT ACH-FT. BELVOIR        | 1,406 | 341   | 256   | 392         | 2,395  |
| TOTAL                         | 4,767 | 3,945 | 3,578 | 3,371       | 15,661 |

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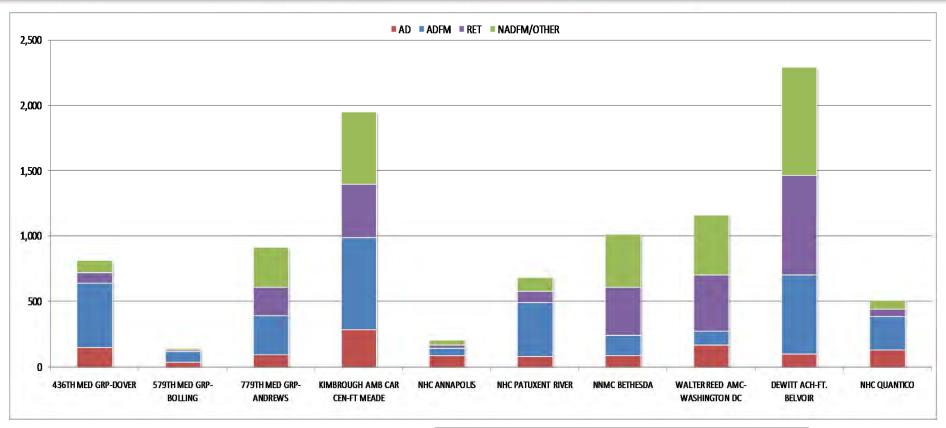
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Data Source: M2 as of Oct 2010

## **Network Inpatient**



#### Referrals by Parent MTF and Beneficiary Category FY 10



|                                | ADFM  | AD    | RET   | NADFM/OTHER | TOTAL |
|--------------------------------|-------|-------|-------|-------------|-------|
| 436TH MED GRP-DOVER            | 496   | 145   | 81    | 93          | 815   |
| 579TH MED GRP-BOLLING          | 80    | 34    | 13    | 12          | 139   |
| 779TH MED GRP-ANDREWS          | 303   | 89    | 214   | 306         | 912   |
| KIMBROUGH AMB CAR CEN-FT MEADE | 702   | 284   | 409   | 557         | 1,952 |
| NHC ANNAPOLIS                  | 59    | 83    | 26    | 33          | 201   |
| NHC PATUXENT RIVER             | 411   | 78    | 87    | 109         | 685   |
| NNMC BETHESDA                  | 153   | 85    | 370   | 405         | 1,013 |
| WALTER REED AMC-WASHINGTON DC  | 104   | 168   | 429   | 461         | 1,162 |
| DEWITT ACH-FT. BELVOIR         | 605   | 97    | 765   | 822         | 2,289 |
| NHC QUANTICO                   | 255   | 131   | 51    | 69          | 506   |
| TOTAL                          | 3,168 | 1,194 | 2,445 | 2,867       | 9,674 |

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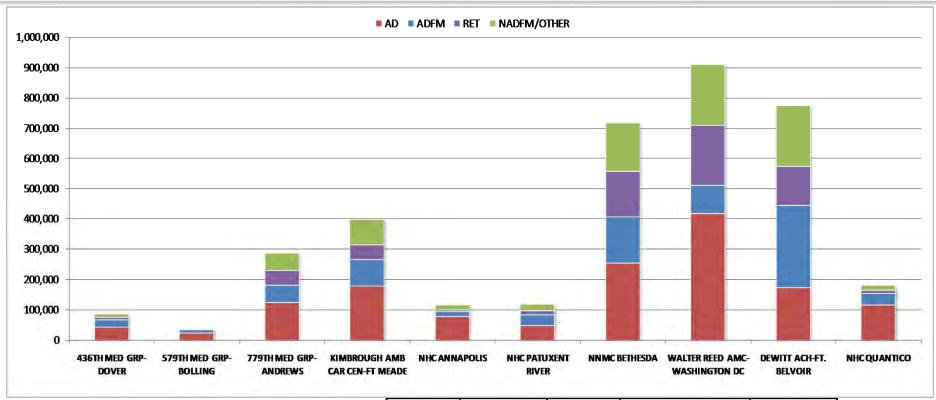
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Data Source: M2 Oct /2010

### **MTF** Outpatient



#### Workload by Parent MTF and Beneficiary Category FY 10



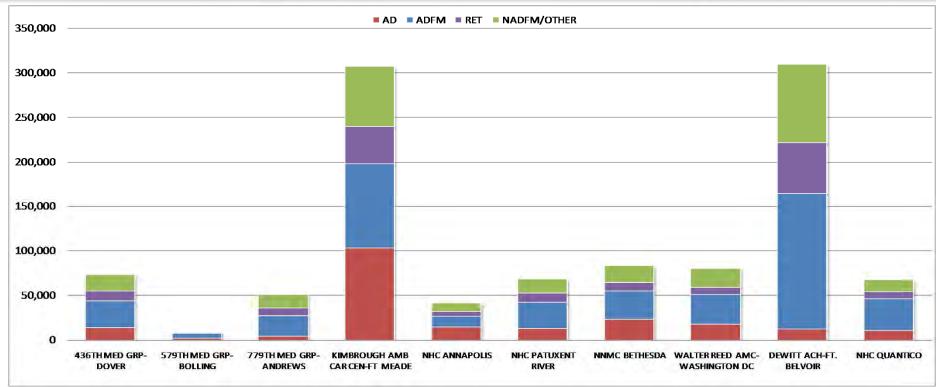
|                                | ADFM    | AD        | RET     | NADFM/OTHER | TOTAL     |
|--------------------------------|---------|-----------|---------|-------------|-----------|
| 436TH MED GRP-DOVER            | 24,482  | 40,186    | 7,917   | 12,514      | 85,099    |
| 579TH MED GRP-BOLLING          | 11,302  | 22,008    | 2,394   | 1,915       | 37,619    |
| 779TH MED GRP-ANDREWS          | 56,797  | 122,461   | 47,914  | 58,539      | 285,711   |
| KIMBROUGH AMB CAR CEN-FT MEADE | 87,023  | 177,650   | 47,318  | 85,509      | 397,500   |
| NHC ANNAPOLIS                  | 15,731  | 76,166    | 6,827   | 15,765      | 114,489   |
| NHC PATUXENT RIVER             | 35,868  | 46,246    | 12,680  | 23,179      | 117,973   |
| NNMC BETHESDA                  | 153,942 | 251,522   | 150,972 | 161,265     | 717,701   |
| WALTER REED AMC-WASHINGTON DC  | 95,745  | 415,431   | 197,751 | 199,855     | 908,782   |
| DEWITT ACH-FT. BELVOIR         | 272,055 | 169,925   | 131,667 | 200,829     | 774,476   |
| NHC QUANTICO                   | 40,378  | 113,029   | 9,240   | 17,764      | 180,411   |
| TOTAL                          | 793,323 | 1,434,624 | 614,680 | 777,134     | 3,619,761 |

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### **Network Outpatient**



#### Workload by Parent MTF and Beneficiary Category FY 10

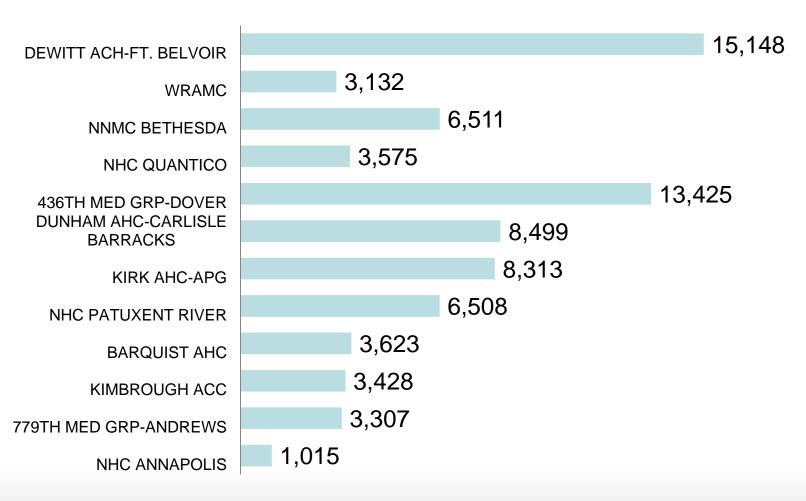


|                                | ADFM    | AD      | RET     | NADFM/OTHER | TOTAL     |
|--------------------------------|---------|---------|---------|-------------|-----------|
| 436TH MED GRP-DOVER            | 29,743  | 13,818  | 11,574  | 17,929      | 73,064    |
| 579TH MED GRP-BOLLING          | 5,213   | 1,785   | 843     | 764         | 8,605     |
| 779TH MED GRP-ANDREWS          | 22,583  | 4,243   | 9,341   | 14,835      | 51,002    |
| KIMBROUGH AMB CAR CEN-FT MEADE | 94,583  | 102,974 | 42,219  | 67,051      | 306,827   |
| NHC ANNAPOLIS                  | 11,828  | 14,675  | 5,474   | 9,170       | 41,147    |
| NHC PATUXENT RIVER             | 29,000  | 12,927  | 10,103  | 15,813      | 67,843    |
| NNMC BETHESDA                  | 31,720  | 23,202  | 9,546   | 18,410      | 82,878    |
| WALTER REED AMC-WASHINGTON DC  | 32,893  | 17,838  | 8,109   | 21,284      | 80,124    |
| DEWITT ACH-FT. BELVOIR         | 152,696 | 11,826  | 56,690  | 88,111      | 309,323   |
| NHC QUANTICO                   | 36,142  | 10,302  | 7,484   | 13,742      | 67,670    |
| TOTAL                          | 446,401 | 213,590 | 161,383 | 267,109     | 1,088,483 |

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#### Referrals from MTF to Network

**FY 2010** 



## **Top 15 NCA Inpatient MDCs**

#### **FY 2010**



| Totals   | \$32,447,420 | 93.7% |
|--|--------------|-------|
| Alcohol/Drug Use and Alcohol/Drug Induced Organic Mental Disorders                 | \$633,360    | 1.8%  |
| Myeloproliferative Diseases and Disorders, Poorly Differentiated Neoplasm          | \$676,405    | 2.0%  |
| Diseases and Disorders of the Blood, Blood Forming Organs, Immunological Disorders | \$725,361    | 2.1%  |
| Endocrine, Nutritional and Metabolic Diseases and Disorders                        | \$749,778    | 2.2%  |
| Infectious and Parasitic Diseases, Systemic or Unspecified Sites                   | \$751,609    | 2.2%  |
| Diseases and Disorders of the Hepatobiliary System and Pancreas                    | \$907,608    | 2.6%  |
| Diseases and Disorders of the Respiratory System                                   | \$1,758,846  | 5.1%  |
| Factors Influencing Health Status and Other Contacts with Health Services          | \$1,849,127  | 5.3%  |
| Diseases and Disorders of the Digestive System                                     | \$2,022,856  | 5.8%  |
| Diseases and Disorders of the Nervous System                                       | \$2,708,940  | 7.8%  |
| Mental Diseases and Disorders  | \$3,210,814  | 9.3%  |
| Pregnancy, Childbirth, and the Puerperium  | \$3,561,139  | 10.3% |
| Diseases and Disorders of the Circulatory System                                   | \$3,691,129  | 10.7% |
| Newborns and Other Neonates with Conditions Originating in Perinatal Period        | \$3,711,441  | 10.7% |
| Diseases and Disorders of the Musculoskeletal System and Connective Tissue         | \$5,489,006  | 15.8% |

Data Source: M2, FY 2010

## **Top 15 NCA Outpatient MDCs**



**FY 2010** 

| Factors Influencing Health Status and Other Contacts with Health Services  | \$25,895,301 | 26.9% |
|--|--------------|-------|
| Diseases and Disorders of the Musculoskeletal System and Connective Tissue | \$16,222,496 | 16.8% |
| Diseases and Disorders of the Ear, Nose, Mouth, and Throat                 | \$8,210,173  | 8.5%  |
| Diseases and Disorders of the Nervous System                               | \$6,429,140  | 6.7%  |
| Mental Diseases and Disorders  | \$5,224,147  | 5.4%  |
| Diseases and Disorders of the Digestive System                             | \$5,177,988  | 5.4%  |
| Diseases and Disorders of the Circulatory System                           | \$5,008,136  | 5.2%  |
| Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast         | \$4,769,885  | 4.9%  |
| Diseases and Disorders of the Respiratory System                           | \$2,850,239  | 3.0%  |
| Endocrine, Nutritional and Metabolic Diseases and Disorders                | \$2,509,547  | 2.6%  |
| Pregnancy, Childbirth, and the Puerperium                                  | \$1,897,067  | 2.0%  |
| Diseases and Disorders of the Kidney and Urinary Tract                     | \$1,807,692  | 1.9%  |
| Diseases and Disorders of the Female Reproductive System                   | \$1,753,104  | 1.8%  |
| Diseases and Disorders of the Eye  | \$1,602,519  | 1.7%  |
| Injuries, Poisonings and Toxic Effects of Drugs                            | \$1,472,997  | 1.5%  |
| Totals   | \$90,830,432 | 94.2% |

**2011 MHS Conference** Data Source: M2, FY 2010

## **Top 15 NCA Outpatient Providers**



Paid Dollars FY 2010

|                                     |              | % of Total   |
|-------------------------------------|--------------|--------------|
| Facility Name                       | Paid Dollars | Paid Dollars |
| ST MARY'S HOSPITAL                  | \$5,337,907  | 6%           |
| JOHNS HOPKINS HOSPITAL              | \$4,667,554  | 5%           |
| MEDICORP AT STAFFORD LLC            | \$4,496,457  | 5%           |
| INOVA FAIRFAX HOSPITAL              | \$4,277,066  | 5%           |
| BAYHEALTH MEDICAL CENTER KENT       | \$4,269,602  | 5%           |
| MARY WASHINGTON HOSPITAL            | \$4,221,000  | 5%           |
| ANNE ARUNDEL MEDICAL CENTER         | \$2,853,655  | 3%           |
| POTOMAC HOSPITAL                    | \$2,809,329  | 3%           |
| MILTON S HERSHEY MEDICAL CENTER     | \$2,538,226  | 3%           |
| CNMC CHILDREN'S HOSPITAL            | \$2,212,101  | 2%           |
| UPPER CHESAPEAKE MEDICAL CENTER     | \$1,960,203  | 2%           |
| HARFORD MEMORIAL HOSPITAL           | \$1,720,142  | 2%           |
| PRINCE WILLIAM HOSPITAL             | \$1,719,278  | 2%           |
| BALTIMORE WASHINGTON MEDICAL CENTER | \$1,638,324  | 2%           |
| INOVA ALEXANDRIA HOSPITAL           | \$1,472,599  | 2%           |
| Total Dollars                       | \$46,193,445 | 50%          |

### **NCA Network Capacity**

Network Adequacy Report (NAR), August 2010



| Provider Specialty                 | Available Non<br>Network<br>Providers | Current Providers<br>Contracted | Prior Providers<br>Contracted from last<br>NAR - May 2010 | Number<br>Over/Under<br>Target | Current/Prior<br>Change from Last<br>NAR - May 2010 |
|------------------------------------|---------------------------------------|---------------------------------|---|--------------------------------|---|
| PRIMARY CARE                       | 563                                   | 957                             | 946   | 394                            | 11  |
| ALLERGY                            | 29                                    | 62                              | 62  | 33                             | 0   |
| CARDIOVASCULAR DISEASE             | 144                                   | 369                             | 370   | 225                            | (1)   |
| DERMATOLOGY                        | 53                                    | 63                              | 61  | 10                             | 2   |
| ENT                                | 27                                    | 65                              | 55  | 38                             | 10  |
| GASTROENTEROLOGY                   | 85                                    | 166                             | 168   | 81                             | (2)   |
| HEMATOLOGY/ONCOLOGY                | 37                                    | 208                             | 207   | 171                            | 1   |
| NEPHROLOGY                         | 49                                    | 82                              | 81  | 33                             | 1   |
| NEUROLOGY                          | 41                                    | 129                             | 126   | 88                             | 3   |
| OB/GYN                             | 196                                   | 259                             | 259   | 63                             | 0   |
| OPHTHALMOLOGY                      | 101                                   | 222                             | 218   | 121                            | 4   |
| OTHER MEDICAL/SURGICAL             | 328                                   | 2,158                           | 2,115   | 1,830                          | 43  |
| PHYSICAL MEDICINE & REHABILITATION | 37                                    | 92                              | 92  | 55                             | 0   |
| PULMONARY DISEASE                  | 32                                    | 96                              | 96  | 64                             | 0   |
| SURGERY, GENERAL                   | 125                                   | 211                             | 211   | 86                             | 0   |
| SURGERY, ORTHOPEDIC                | 89                                    | 201                             | 201   | 112                            | 0   |
| UROLOGY                            | 56                                    | 39                              | 39  | (17)                           | 0   |
| PSYCHIATRY                         | 59                                    | 131                             | 128   | 72                             | 3   |
| OTHER BEHAVIORAL HEALTH            | 428                                   | 826                             | 820   | 398                            | 6   |
| Total Professional                 | 2,479                                 | 6,336                           | 6,255   | 3,857                          | 81  |
| HOSPITAL                           | 38                                    | 38                              | 32  | 0                              | 6   |
| MENTAL HEALTH FACILITIES/UNITS     | 10                                    | 10                              | 10  | 0                              | 0   |
| Total Instititional Facilities     | 48                                    | 48                              | 42  | 0                              | 6   |

- Managed Care Support activities undertaken for greater access:
  - ☐ Continue contract discussions with UROLOGY and BEHAVIOR HEALTH providers.
  - ☐ Continue monitoring of network access and availability.

#### Recommendations



#### Modeling for single or multiple facilities

- Jointly analyze:
  - DoD's NCA institutional capacities
  - Elasticity of beneficiary demand (Access to Care, BRAC impact, etc)
  - Leverage network capacity to augment Support of Total Force
  - Recapture workload
  - Effect of reliance on civilian hospitals (Johns Hopkins, Howard County GH, etc)
  - Address limitations collectively (drive time, ER utilization, unappointed referrals, no-shows)
- Political economics
  - Adequacy of Reimbursement
  - Enhanced joint referral and authorization system
  - DoD & VA Cooperative care from Baltimore to Richmond



CAPT Steve Keener, Chief of Staff, TRO-N

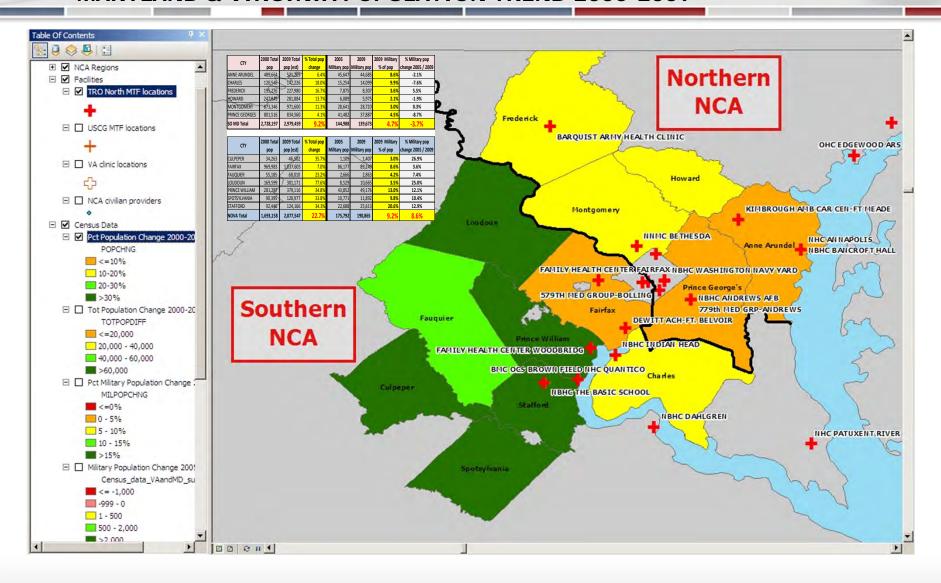
#### TRO-N METHODOLOGY

**IMPROVEMENTS TO THE METHOD** 

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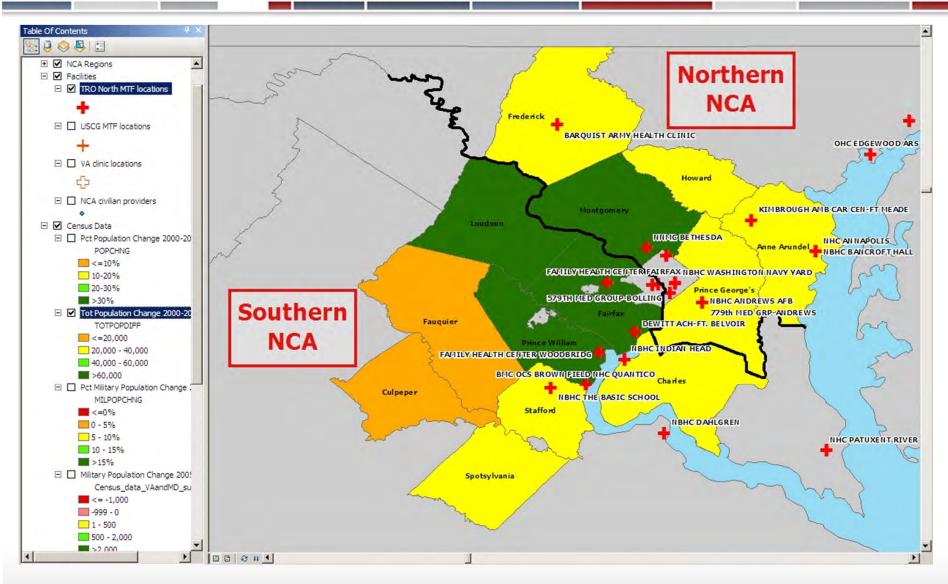
#### MARYLAND & VIRGINIA POPULATION TREND 2000-2009



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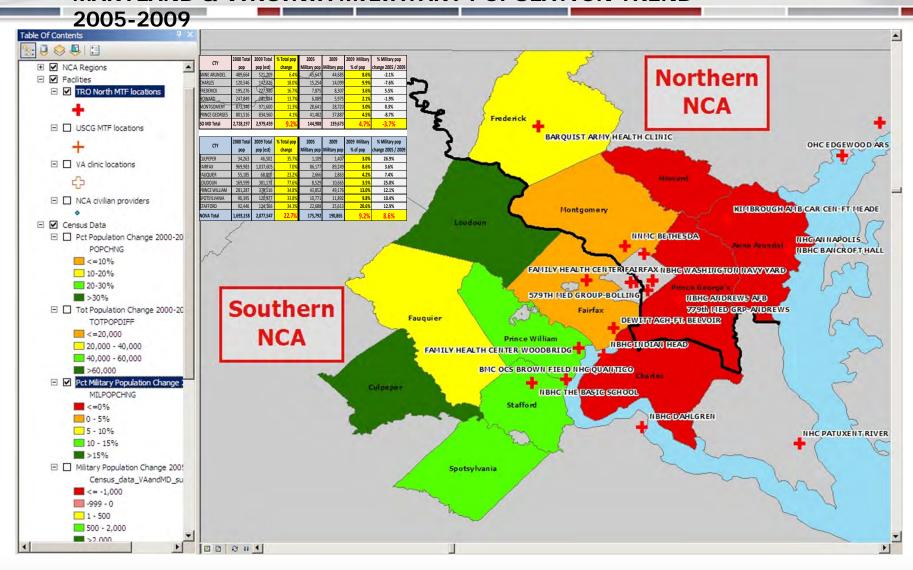


#### MARYLAND & VIRGINIA POPULATION TREND 2000-2009



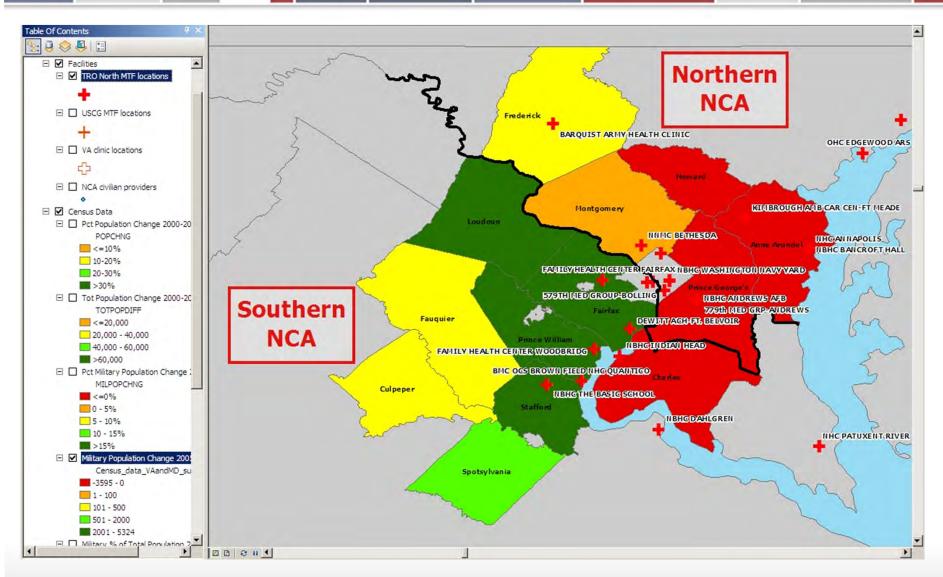


#### MARYLAND & VIRGINIA MILIATARY POPULATION TREND





#### MARYLAND & VIRGINIA MILITARY POPULATION TREND 2005-2009



### **NCA Network Capacity**

Network Adequacy Report (NAR), August 2010

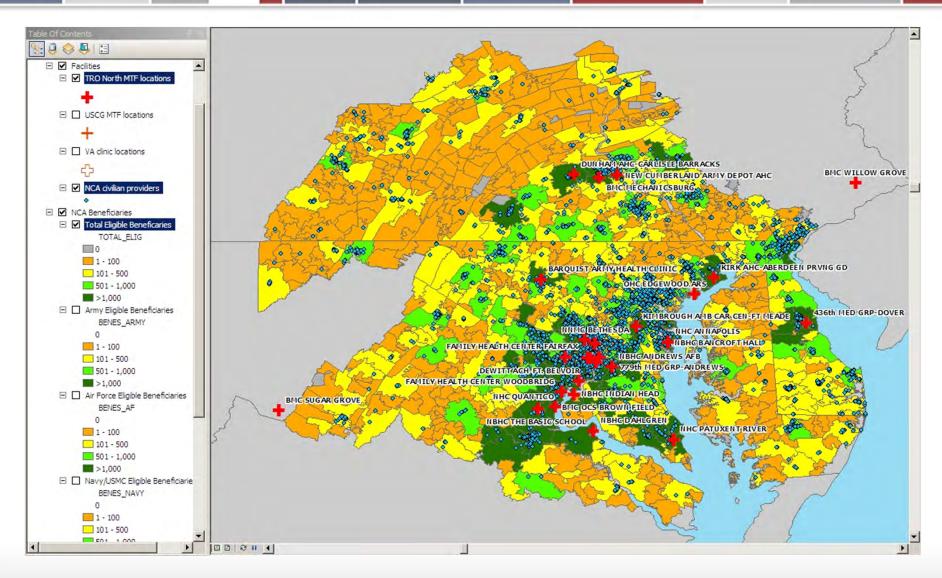


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| Total Instititional Facilities     | 48                                    | 48                              | 42  | 0                              | 6   |

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  - ☐ Continue contract discussions with UROLOGY and BEHAVIOR HEALTH providers.
  - ☐ Continue monitoring of network access and availability.

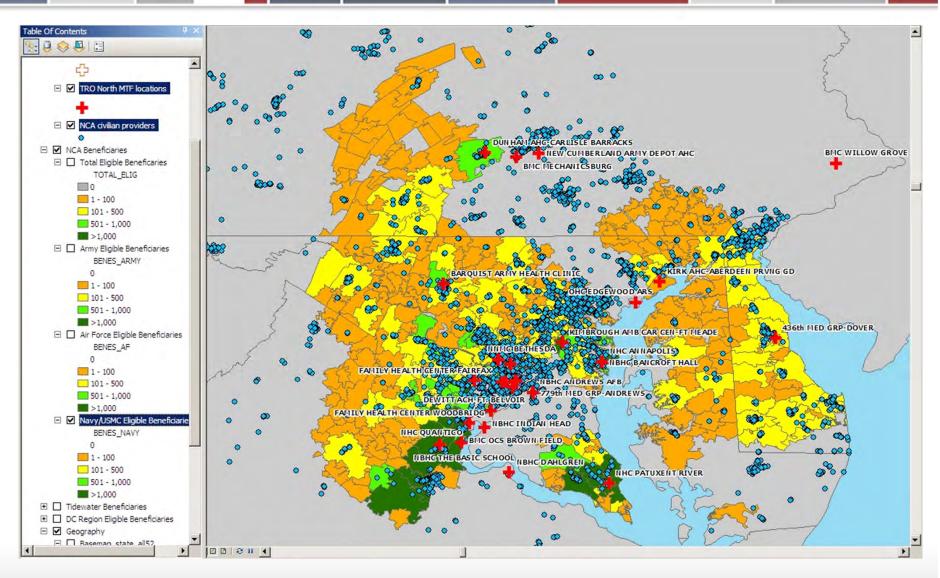
## NCA FY10 TOTAL ELIGIBLE POPULATION





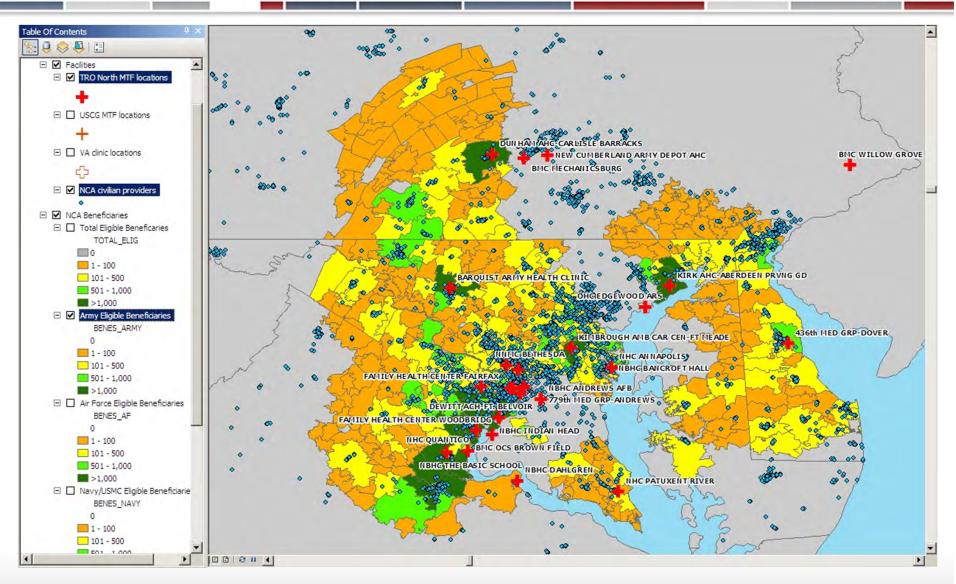
## FY10 NAVY/USMC ELIGIBLE POPULATION FOR NCA PSAs





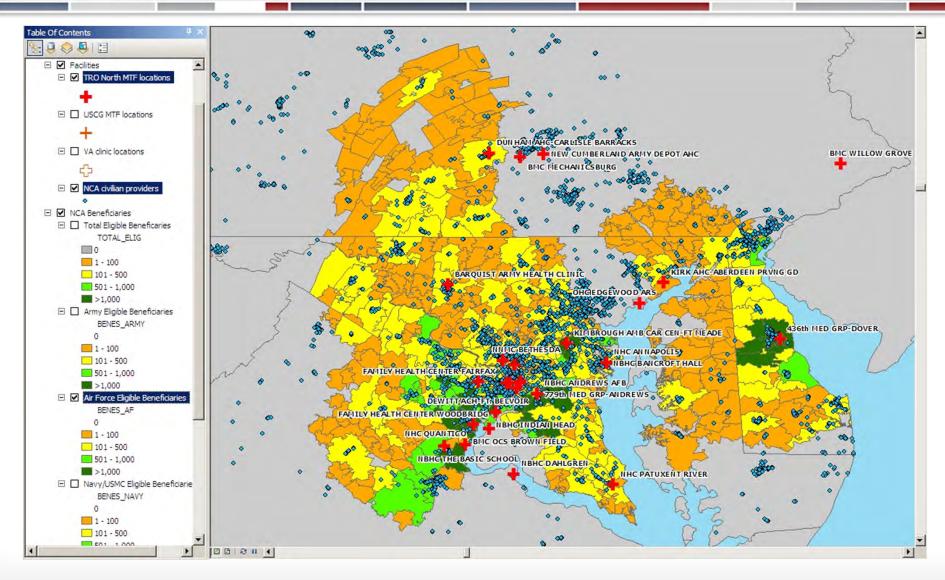
## FY10 ARMY ELIGIBLE POPULATION FOR NCA PSAs





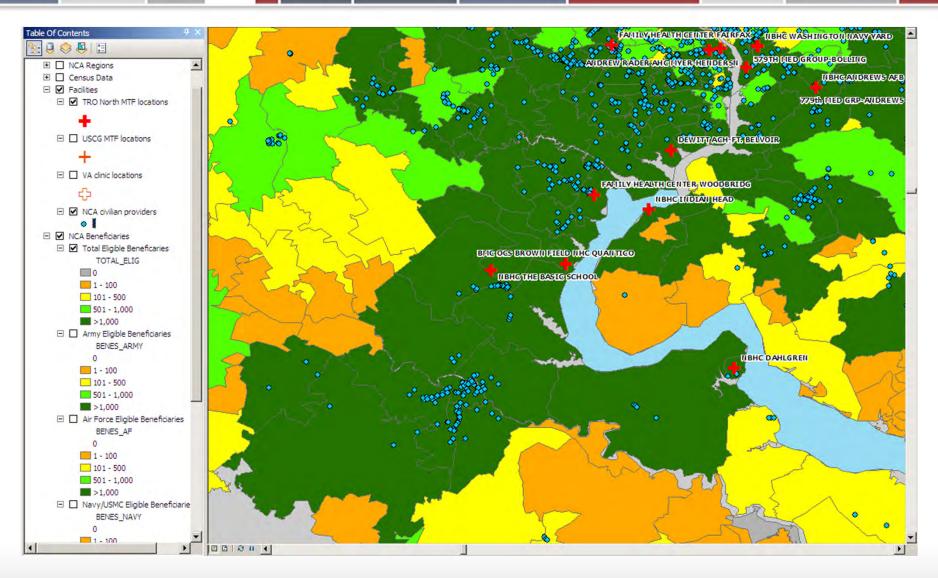
## FY10 AIR FORCE ELIGIBLE POPULATION FOR NCA PSAs





# NCA FY10 TOTAL ELIGIBLE POPULATION - zoom





#### **Top 15 NCA Inpatient Providers**

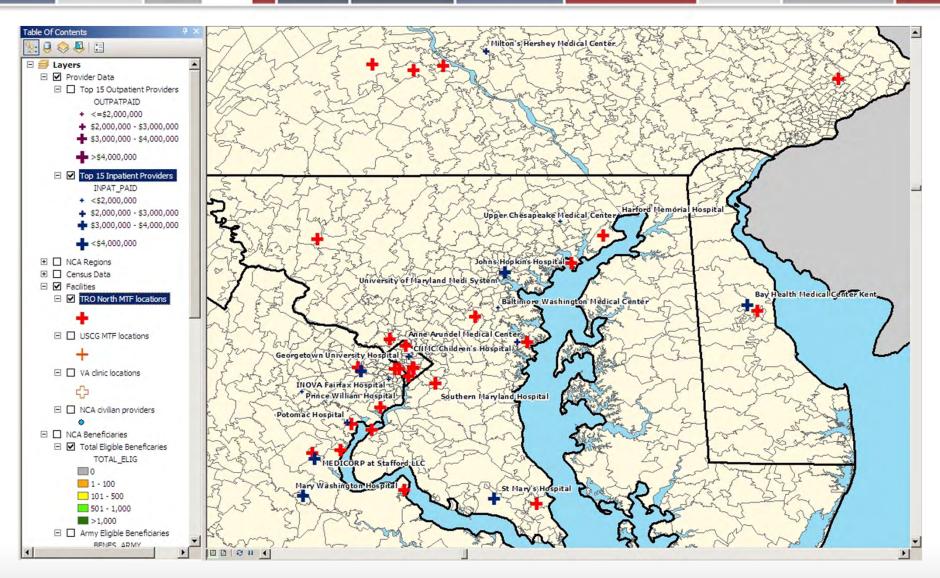
Paid Dollars FY 2010



|                                 |              | % of Total<br>Paid |
|---------------------------------|--------------|--------------------|
| Facility Name                   | Paid Dollars | Dollars            |
| MARY WASHINGTON HOSPITAL        | \$14,738,473 | 13%                |
| JOHNS HOPKINS HOSPITAL          | \$10,207,073 | 9%                 |
| CNMC CHILDREN'S HOSPITAL        | \$8,707,891  | 8%                 |
| UNIV OF MARYLAND MEDI SYSTEM    | \$4,930,908  | 4%                 |
| INOVA FAIRFAX HOSPITAL          | \$4,743,489  | 4%                 |
| SOUTHERN MARYLAND HOSP          | \$3,010,899  | 3%                 |
| ST MARY'S HOSPITAL              | \$2,821,025  | 3%                 |
| GEORGETOWN UNIVERSITY HOSPTIAL  | \$2,537,653  | 2%                 |
| BAYHEALTH MEDICAL CENTER KENT   | \$2,495,103  | 2%                 |
| ANNE ARUNDEL MEDICAL CENTER     | \$2,208,767  | 2%                 |
| UPPER CHESAPEAKE MEDICAL CENTER | \$2,054,781  | 2%                 |
| MILTON S HERSHEY MEDICAL CENTER | \$1,864,789  | 2%                 |
| WASHINGTON HOSPITAL CENTER      | \$1,707,372  | 2%                 |
| POTOMAC HOSPITAL                | \$1,493,626  | 1%                 |
| MEDICORP AT STAFFORD LLC        | \$1,473,104  | 1%                 |
| Total Dollars                   | \$64,994,954 | 59%                |

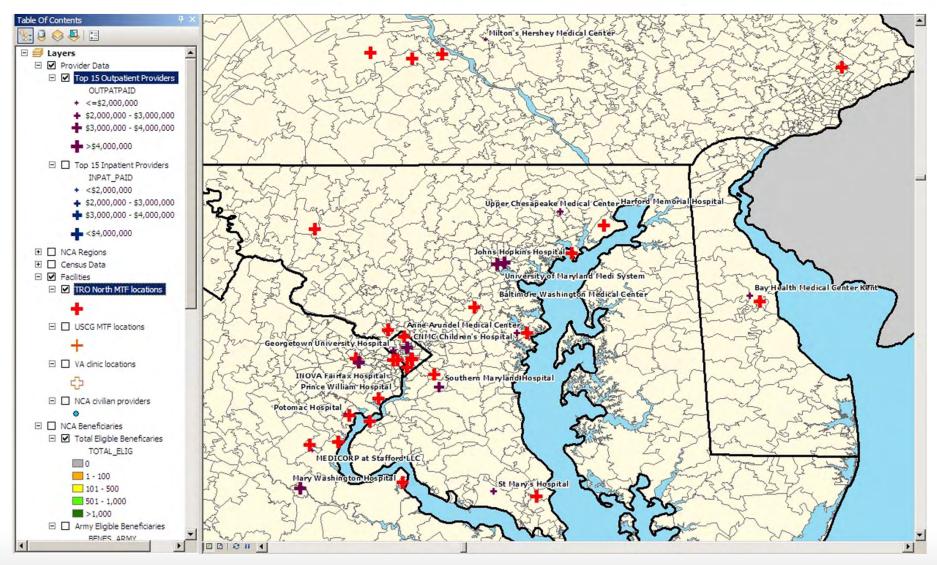
# **Top 15 NCA Inpatient Providers Paid Dollars FY 2010**





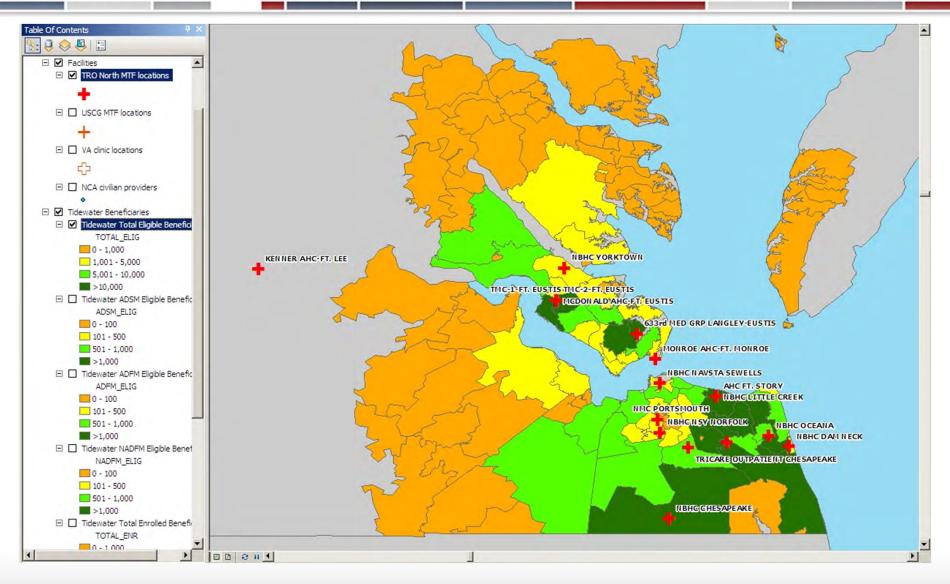
# **Top 15 NCA Outpatient Providers Paid Dollars FY 2010**





# TIDEWATER TOTAL ELIGIBLE POPULATION

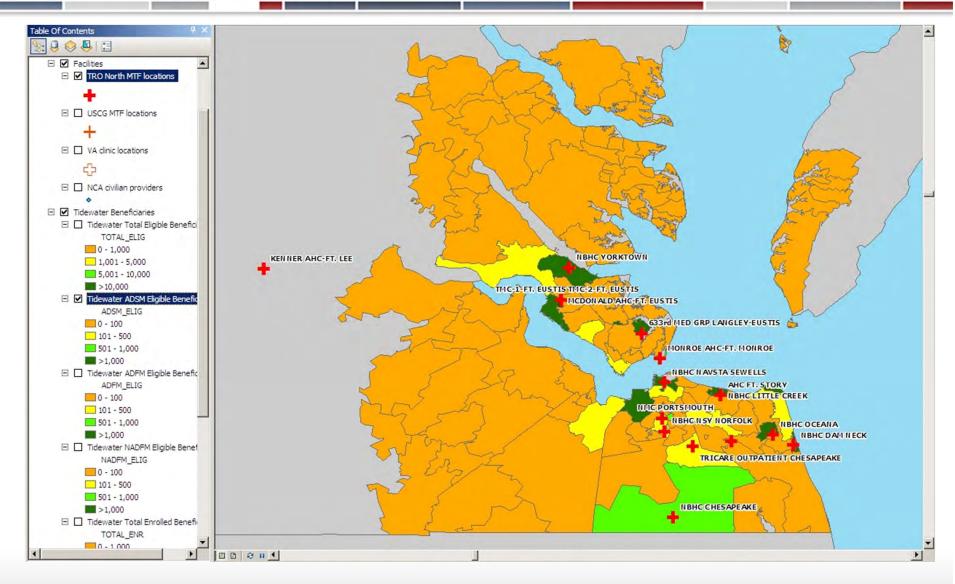




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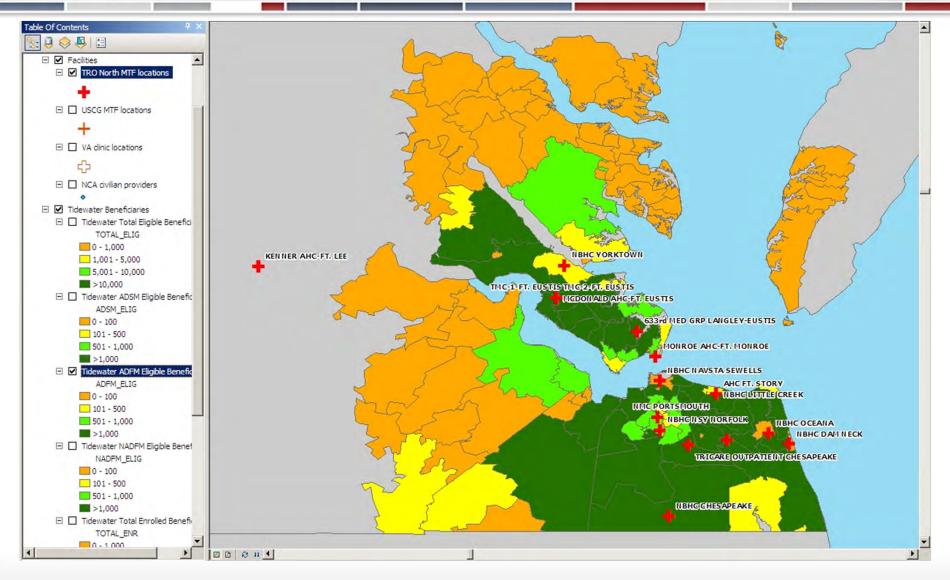
# TIDEWATER ADSM ELIGIBLE POPULATION





### TIDEWATER ADFM ELIGIBLE POPULATION

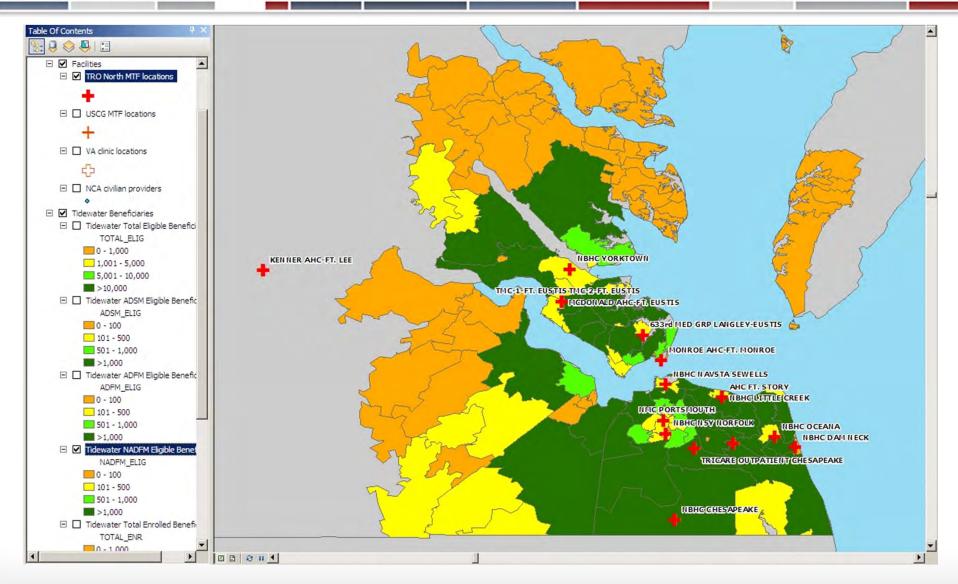




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### TIDEWATER NADFM ELIGIBLE POPULATION

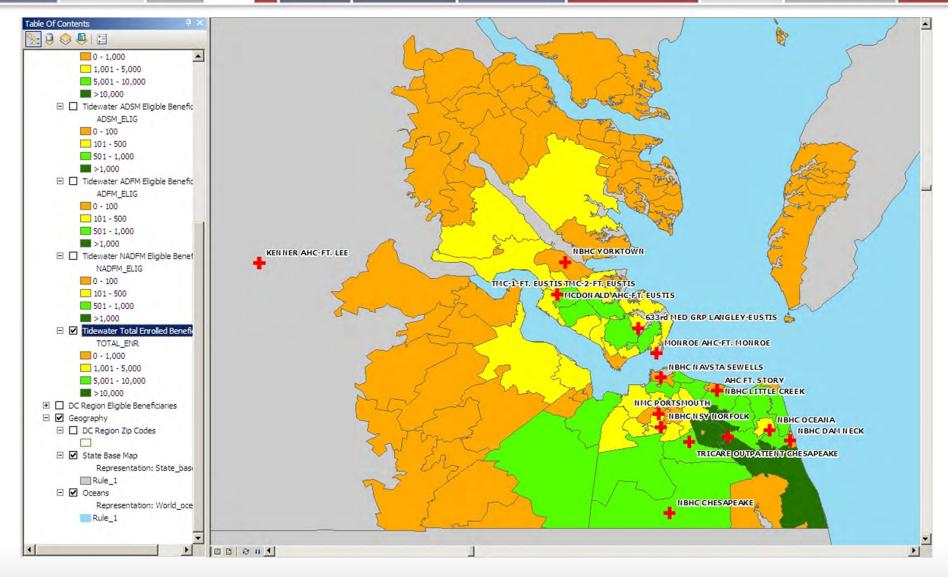




### TIDEWATER TOTAL ENROLLED POPULATION



44



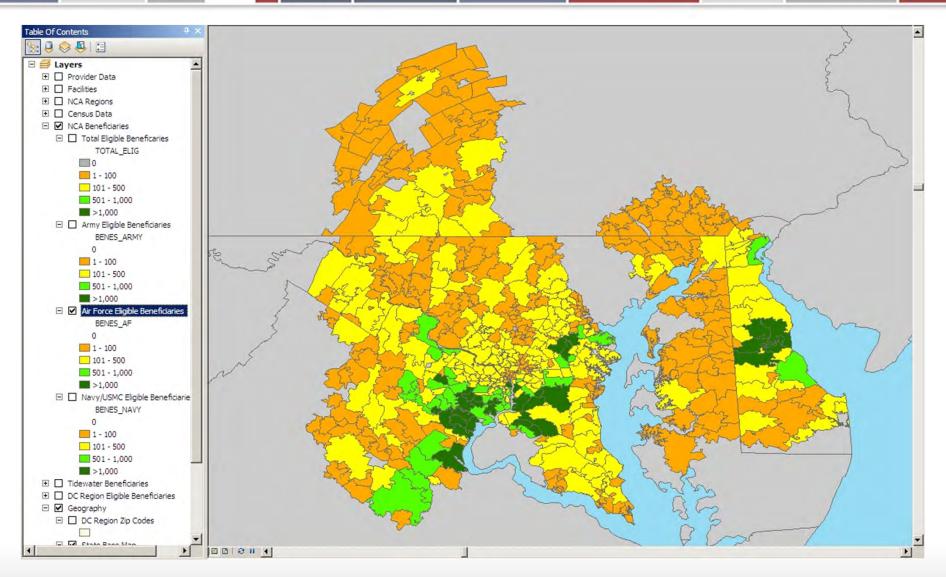


#### **Questions?**

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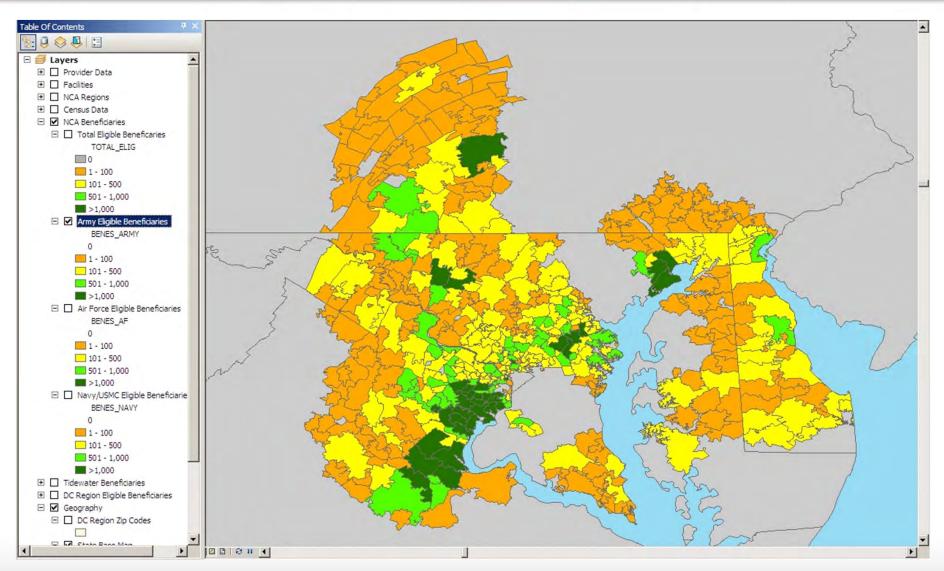
# FY10 AIR FORCE ELIGIBLE POPULATION FOR NCA PSAs





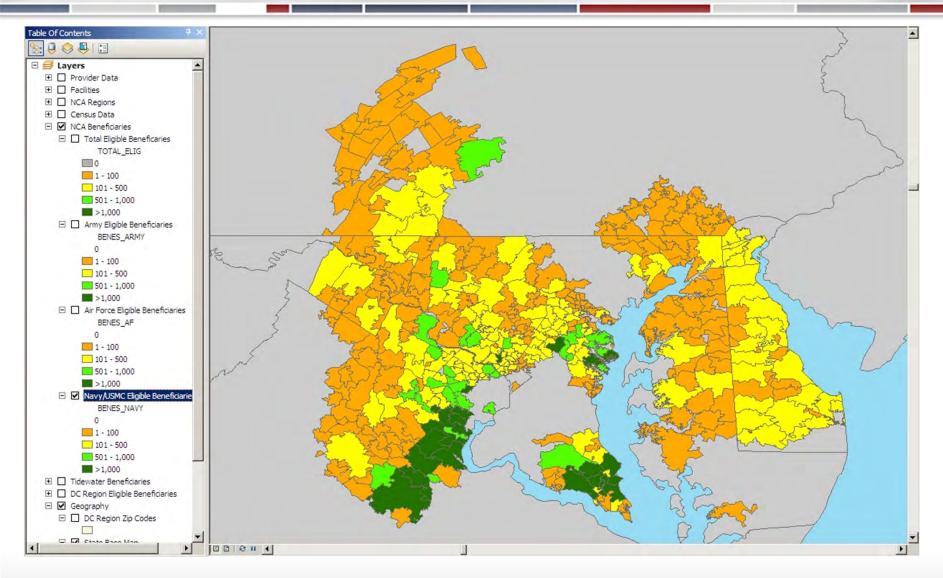
# FY10 ARMY ELIGIBLE POPULATION FOR NCA PSAS





# FY10 NAVY/USMC ELIGIBLE POPULATION FOR NCA PSAs





### NCA FY10 TOTAL ELIGIBLE POPULATION



